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PATENT COOPERATION TREATY

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PCT

 INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY
 (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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| Applicant's or agent's file reference PON047 | FOR FURTHER ACTION See Form PCT/IPEA/416 | |
| International application No. PCT/JP2003/010839 | International filing date (day/month/year) 27 August 2003 (27.08.2003) | Priority date (day/month/year) 11 September 2002 (11.09.2002) |
| International Patent Classification (IPC) or national classification and IPC H04L 9/08, 9/14, G11B 20/10, 20/12, G06F 12/14 | | |
| Applicant PIONEER CORPORATION | | |

- This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
- This REPORT consists of a total of 4 sheets, including this cover sheet.
- This report is also accompanied by ANNEXES, comprising:
 - ☐ (sent to the applicant and to the International Bureau) a total of _____ sheets, as follows:
 - ☐ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - ☐ (sent to the International Bureau only) a total of _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

- This report contains indications relating to the following items:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Box No. I | Basis of the report |
| <input type="checkbox"/> Box No. II | Priority |
| <input type="checkbox"/> Box No. III | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability |
| <input type="checkbox"/> Box No. IV | Lack of unity of invention |
| <input checked="" type="checkbox"/> Box No. V | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/> Box No. VI | Certain documents cited |
| <input type="checkbox"/> Box No. VII | Certain defects in the international application |
| <input type="checkbox"/> Box No. VIII | Certain observations on the international application |

| | |
|---|--|
| Date of submission of the demand 26 February 2004 (26.02.2004) | Date of completion of this report 10 June 2004 (10.06.2004) |
| Name and mailing address of the IPEA/JP | Authorized officer |
| Facsimile No. | Telephone No. |

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2003/010839

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

- ☐ This report is based on translations from the original language into the following language _____, which is language of a translation furnished for the purpose of:
- ☐ international search (under Rules 12.3 and 23.1(b))
 - ☐ publication of the international application (under Rule 12.4)
 - ☐ international preliminary examination (under Rules 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report)*:

- ☒ The international application as originally filed/furnished
- ☐ the description:
- pages _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the claims:
- pages _____, as originally filed/furnished
- pages* _____, as amended (together with any statement) under Article 19
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ the drawings:
- pages _____, as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | | |
|-------------------------------|--------|------|-----|
| Novelty (N) | Claims | 1-22 | YES |
| | Claims | | NO |
| Inventive step (IS) | Claims | | YES |
| | Claims | 1-22 | NO |
| Industrial applicability (IA) | Claims | 1-22 | YES |
| | Claims | | NO |

2. Citations and explanations (Rule 70.7)

Document 1: JP, 2001-358705, A (Sony Corp.), 26 December, 2001 (26.12.01)

Document 2: JP, 2001-211149, A (Sony Corp.), 3 August, 2001 (03.08.01)

The subject matters of claims 1-9 do not appear to involve an inventive step in view of document 1 cited in the ISR and paragraphs [0173] to [0175] of document 2 cited in the ISR. A person skilled in the art could have easily used the key management technique of setting the data structure of key blocks differently from area to area as shown in document 2 in the information recording medium, which stores nodes on a path from the top node of an entity to which one belongs to a leaf corresponding to one's own device, a node key set in the leaf and a leaf key, as a holding structure of cipher processing keys in each device when encrypted data is distributed from the contents distributor side to the contents receiver side as disclosed in document 1. How to set the assignment of areas to the leaf key and the node key for carrying out key management is within the ordinary design ability displayed by a person skilled in the art as required in accordance with the scale of a system and the number of keys.

The subject matter of claim 10 does not appear to involve an inventive step in view of document 1 and paragraphs [0173] to [0175] of document 2.

A person skilled in the art could have easily used the key management technique of setting the data structure of key blocks differently from area to area as shown in document 2 in the information recording device storing keys by the tree structure pattern divide system.

The subject matters of claims 11-14 do not appear to involve an inventive step in view of document 1 and paragraphs [0173] to [0175] of document 2. So, person skilled in the art could have easily used the key management technique of setting the data structure of key blocks differently from area to area as shown in document 2 in the information reproduction device reproducing contents by using keys stored according to the tree structure pattern divide system.

The subject matter of claim 15 does not appear to involve an inventive step since a person skilled in the art could have easily conceived of the constituent feature on the basis of an information distribution device which distributes cipher data encrypted by means of a contents key and contents key data encrypted by means of contents key encryption keys from the contents distributor side to devices on the contents receiver side as disclosed in documents 1 and 2.

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.
Continuation of: V.2

The subject matters of claims 16, 17, 19 and 21 do not appear to involve an inventive step in view of document 1 and paragraphs [0173] to [0175] of document 2.

A person skilled in the art could have easily used the key management technique of setting the data structure of key blocks differently from area to area as shown in document 2 in the information reproduction method of reproducing contents by means of keys stored according to the tree structure pattern divide system disclosed in document 1. For software-processing said method on a computer, programming the method and recording it in a recording medium is a usual practice for a person skilled in the art.

The subject matters of claims 18, 20 and 22 do not appear to involve an inventive step in view of document 1 and paragraphs [0173] to [0175] of document 2.

A person skilled in the art could have easily used the key management technique of setting the data structure of key blocks differently from area to area as shown in document 2 in the information reproduction method of reproducing contents by means of keys stored according to the tree structure pattern divide system disclosed in document 1. For software-processing said method on a computer, programming the method and recording it in a recording medium is a usual practice for a person skilled in the art.